

INTERNATIONAL SEARCH REPORT

International Application No

PCT/IB2004/052460

A. CLASSIFICATION OF SUBJECT MATTER
 IPC 7 G02F1/1333 G02F1/1341

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 G02F

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the International search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ, IBM-TDB, COMPENDEX, INSPEC

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 5 870 162 A (FUJIMORI KOICHI ET AL) 9 February 1999 (1999-02-09) figures 1-6; examples 1,2	1-23
A	US 2003/035885 A1 (WANG XIAOJIA ET AL) 20 February 2003 (2003-02-20) paragraph '0072! - paragraph '0105!; figures 5,6	1-23
A	US 5 784 134 A (FUJIMORI KOICHI ET AL) 21 July 1998 (1998-07-21) column 5, line 46 - column 18, line 44; figures 1-6	1-23
A	US 5 929 960 A (ROUBEROL MARC ET AL) 27 July 1999 (1999-07-27) column 3, line 9 - column 5, line 20; figures 1-4	1,18,20



Further documents are listed in the continuation of box C.



Patent family members are listed in annex.

* Special categories of cited documents :

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the International filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the International filing date but later than the priority date claimed

T later document published after the International filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

X document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

Y document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

& document member of the same patent family

Date of the actual completion of the International search

7 January 2005

Date of mailing of the International search report

18/01/2005

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2
 NL - 2280 HV Rijswijk
 Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,
 Fax (+31-70) 340-3016

Authorized officer

Kiernan, L

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/IB2004/052460

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 5870162	A	09-02-1999	JP 3178773 B2	25-06-2001
			JP 7287241 A	31-10-1995
			CN 1120680 A ,B	17-04-1996
			GB 2286896 A ,B	30-08-1995
			KR 203793 B1	15-06-1999
			TW 506539 Y	11-10-2002
			US 5784134 A	21-07-1998
US 2003035885	A1	20-02-2003	US 2002188053 A1	12-12-2002
			CA 2448440 A1	12-12-2002
			CN 1389534 A	08-01-2003
			EP 1401953 A1	31-03-2004
			WO 02098977 A1	12-12-2002
			US 2003004254 A1	02-01-2003
			US 2003176557 A1	18-09-2003
US 5784134	A	21-07-1998	JP 3178773 B2	25-06-2001
			JP 7287241 A	31-10-1995
			CN 1120680 A ,B	17-04-1996
			GB 2286896 A ,B	30-08-1995
			KR 203793 B1	15-06-1999
			TW 506539 Y	11-10-2002
			US 5870162 A	09-02-1999
US 5929960	A	27-07-1999	NONE	